Project Plan

This document is a project plan for the Group 5 of advanced programming courses. It will demonstrate the project outline, the act and role of the participants, what methodology will be used, and how we will manage the conflicts in case of disagreement for the project.

Project Overview

In this project, we will build a web application for a customer, communication with the instructor of the course Dr Hsi-Ming Ho, should actively take place to gather requirements and find out what is needed for the project. Because he will act like a normal customer with no computer science background to simulate real-world situations to ensure the quality of the group's requirement analysis. The exact description and scope of this project are not set yet so there must be lots of changes in project features and requirements. The project should be implemented in 5 stages (in the form of Deliverable).

Organization plan

The characteristics of the project such as indecisiveness and the situation of our team members are good reasons to manage our work as agilely as possible in order to change course of actions very rapidly.

Our team currently has 6 members but we couldn't contact 3 of the team members due to their absence and Mr Shahroz has joined us recently. We do not know if they will join us and what their capability is, so we will assume different scenarios.

To complete a project that is functional, reliable, and maintainable we need members responsible for each of the following tasks:
- Requirement engineering
- Creating software documentations
- Project management (including planning, assigning tasks to group members and Deciding main design decisions)
- Implementation
- Testing and Quality Control
- Deployment and automation

An important factor in organizing the project was to set up our workflow in a way to have a backup for each member. This means two members should be familiar with the details of every task to have redundancy in case of the member's absence.

Mr Erfan Ghoreishi has the role of team leader in this group. He has a software engineering background and worked on real-world projects. He is familiar with testing simple deployment and automation tools. His main responsibility is managing the project and coding the backend of the project.

Mr Yergeli has a Computer science background, he is capable of working with javascript, and he will be responsible for developing the frontend code. He is also capable of writing backend code in javascript so he can be a substitute for Mr Ghoreishi in case of his absence.

Mr Shahroz Has a mostly theoretical background in the computer field. So he will work towards requirement engineering, creating necessary software documents and He will also be responsible for testing and quality assurance.

Each Person in the group is responsible for demonstrating his work to other team members this includes mentoring and teaching for team members who have more experience. We also acknowledge that if more team members will join us they will be assigned part of our current responsibility in proportion to their experience.

Development plan

Due to frequent changes in the project and our group situation, we have not yet completed our development plan but we have thought about it so we can take the proper decision. For the methodology, we will use modified agile methodology, scrum or Extreme Programming. We can use Python, PHP or javascript programming language for our project but we prefer to use a framework that can properly address the project which is smaller and has the least amount of dependency in order to make our process more agile.

Conflict resolution plan

Because of the small size of our team, reaching a conflict is improbable, but we agreed on a consensus mechanism which is simple and agile. If any of our team members disagreed with a decision he has the right to withdraw the group leader's decision for 3 occasions if he can get the majority of other team members to agree with him.